

127

Seligman

July 1 - Aug. 13,
1953

115

1.94

1.99

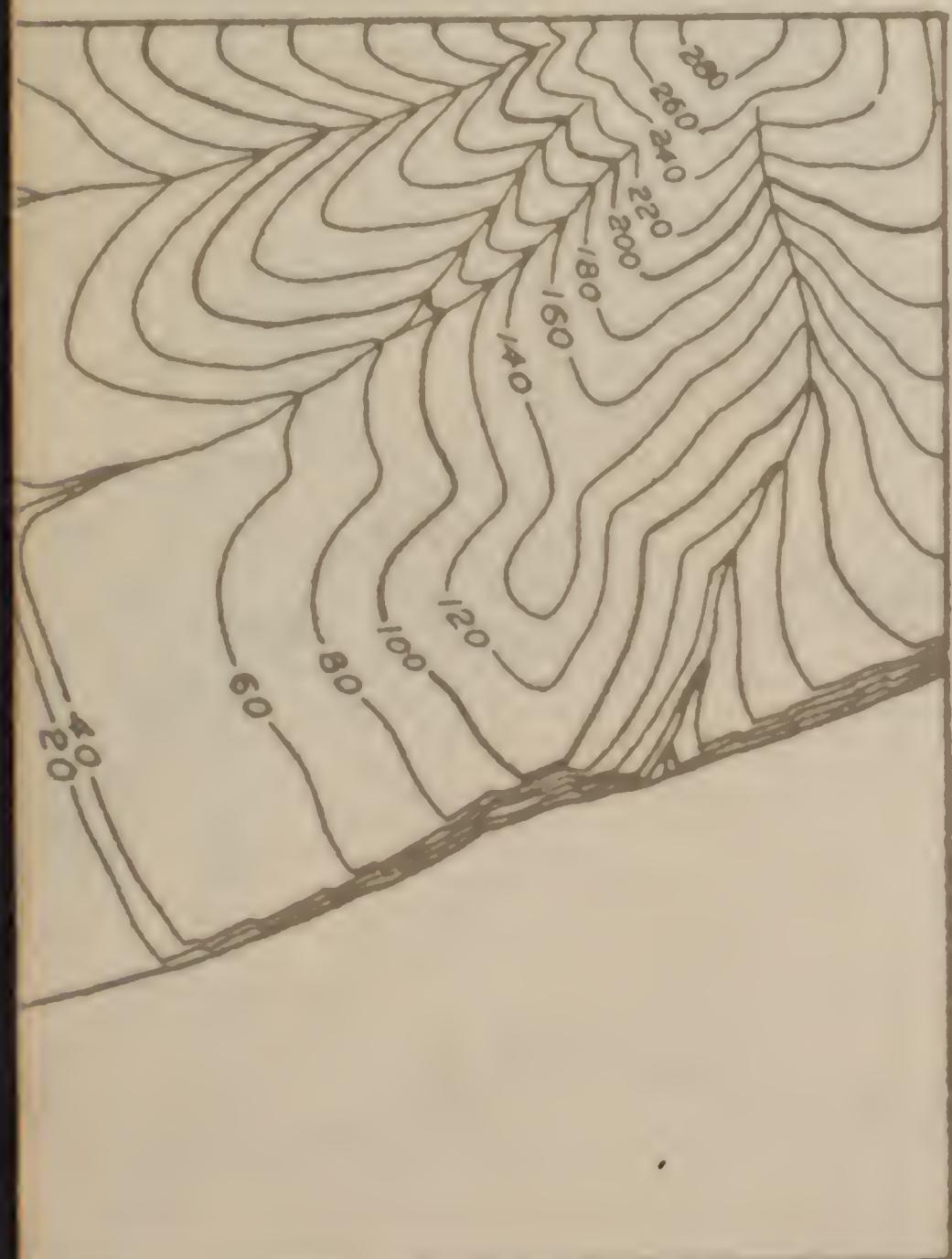
3.25

WC att P 419

Phone Call

452 College

and valleys, as well as
that are far apart on
that are close together
un together indicate a
express altitude, form,



~~Scale of $\frac{1}{31,680}$ (1 inch = one-half mile)~~
with a contour interval of 1 to 100
of the particular area mapped.

2. Surveys of areas in which the
public importance, such as most of
and its tributaries, are made with the
the publication of maps on a scale
mile), with a contour interval of 10

3. Surveys of areas in which
public importance, such as much
region of Arizona or New Mexico,
of the northwest, are made with the
the publication of maps on a scale
miles) or $\frac{1}{250,000}$ (1 inch = nearly 4 miles
of 20 to 250 feet.

The aerial camera is now being used
information recorded on the photographs
which show only drainage and cultural
areas in the United States. By this
apparatus, aerial photographs are used
the regular topographic maps, which
drainage and culture.

A topographic survey of Alaska
1898, and nearly 44 percent of its
About 15 percent of the Territory
on a scale of $\frac{1}{500,000}$ (1 inch = nearly
remainder of the area surveyed on
scale of $\frac{1}{250,000}$ (1 inch = nearly 4 miles).
ticular economic importance, covering
the maps published are on a scale of
on January 1, 1910.

卷之三



0416



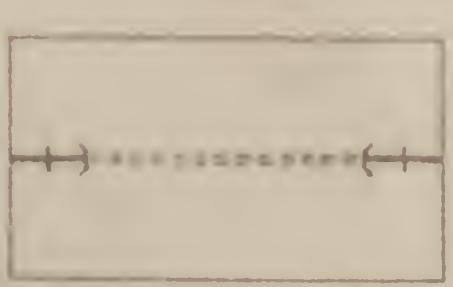
valley that lies between two sea, with a bay that is partly covered by sand bars. On each side of the valley is a steep slope. The streams have cut narrow gullies. The mountain has a rounded summit and gently sloping sides.

SYMBOLS

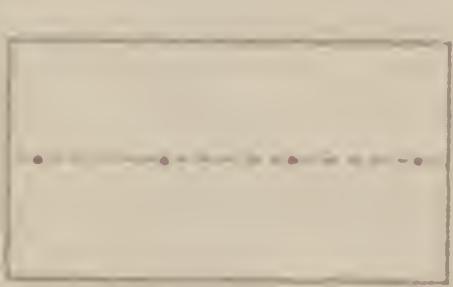
URE
(in black)



Electric road



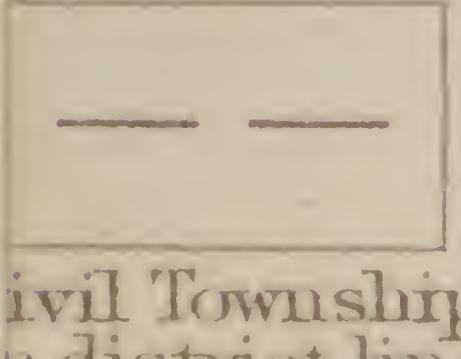
Tunnel



Power-transmission line



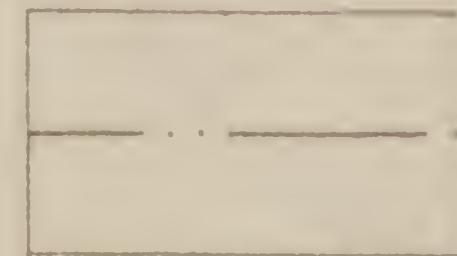
Wharf



Civil Township or district line



Reservation line



Land grant line



Mine or quarry



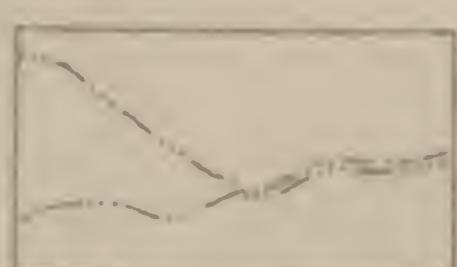
Prospect



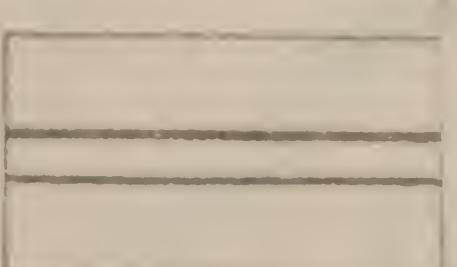
Shaft



Falls and rapids



Intermittent streams and ditches



Canals or ditches

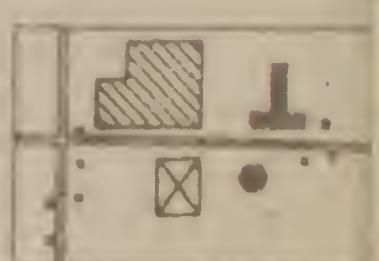
NOTE:—Effective quadrangle amounting to

or larger. In addition to the about 11,300 square miles covered by planimetric maps

The Hawaiian Islands have maps are published on a scale



City or village



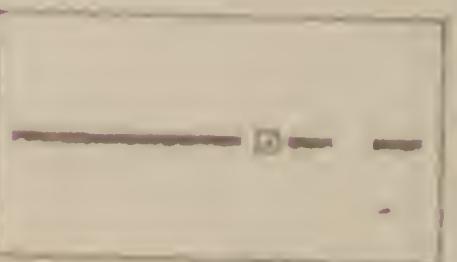
Roads and building



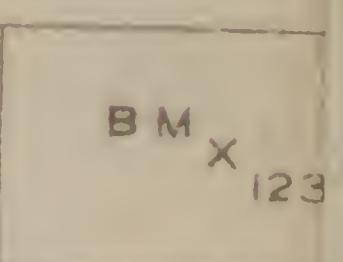
Ford



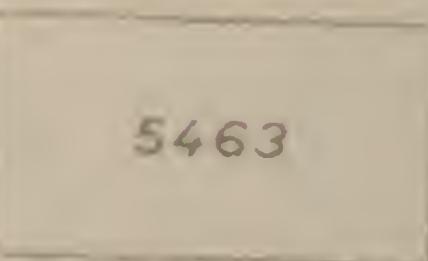
Dam



Boundary monument



Bench mark
(supplementary)
mark shown by a black figure, lettering



Elevation above mean sea level
(in black on recent maps)

0417



July 1 - Aug. 12, 1953.

July 1-3 Washington to Sulfur Springs, Texas

July 4 - Sulfur Springs, Texas to Coleman, Texas. Visited Moore loc. 9800, 3 miles east of Coleman. Only abundant fossil is *Plat. wolfcampensis*. Poorly preserved occurred in a hard bed about one foot thick. Coleman Junction ls.

July 5 - Morning at Moore loc. 9800 9 mi. SW of Rockwood. About 25' above a one foot limestone forming edge of creek channels occurs ls and nodular ls above and below, in all possibly, 5' thick with numerous fossils. Followed bed for about one mile along hillside. Saddle Creek ls & Camp Creek shale.

Moore loc. 9805 - Watts Creek shale member of Moran fm. - Cut on US 67, 2 miles east of Santa Anna. Very fossiliferous contained *Cliothryxina* and very like Moran, 5 mi. NW of Moran.

July 6 - Travelled to Marathon, arrived about 3:30 P.M.

July 7 Went to Wolfcamp Hills. Collected J 1150c 701h? Now collected out. Afternoon collected HR north of Hess Ranch.

418a

Register of blocks 1953

701h	- - - - -	6
HR	- - - - -	6
701k	- - - - -	7
706f	- - - - -	1
706C	- - - - -	6
707e	- - - - -	6
SP	- - - - -	1
Jy 1552 = Newell 512	- - - - -	10
Jy 1953	- - - - -	2
Newell 52	- - - - -	$\frac{6}{51}$

0419

Picture 1 - WC 4 and WC 2 in small
canyon on from west.

Picture 2 - Bioherms in saddle WC hills

July 9 - At mouth of 1st small canyon east
of canyon of King's section occurs patch
of Leptodus bound together with algae.

July 8 - Wolfcamp hills to collect
701K. Found 2 patches only
to collect. Collected goniatites for
several hours. Left for town about
3 P.M. Bed with crinoids but goniatites
is about 20 feet below top of
Uddenites zone

July 9 - Went to Wolfcamp hills to see
section. Went over bed two to
canyon mouth, up over dolomites
saddle. Collected 2 fuseline
samples, one in lower part of bed
2 and one at the top of the
Uddenites knob. Went up canyon
and saw Leptodus at top of bed 2.
Collected from Bed 12 which has
goniatites. Afternoon went to
saddle to see bioherms. Walked
up limestone of Uddenites bed to
end of hills. The knob called
4952 is definitely Bed 2 but is
completely dolomitized. The knob
just to the SW is on the Yellow
Is. and I took a *Spirorbisella* from
the center of this knob. Also took
fuselines at same place that are small
like those at the base of this bed.
On this part of the hill there

706P
8

701a

seems to be no bed 2 at the top of the hill. What appears to be bed 2 and with a thin shale under it occurs about 100' in elevation below the ledge or about 0.1 mile. The crest of the hills from the saddle to the knot just SW of hill 4952 is the Udderites bed and not bed 2. In the knot just east of the main saddle Bed 2 appears above about 20' of shale just below the crest of the hill.

July 10. Collected 706b, 706c, 706e. Batt in afternoon collected 702c.

Pictures 3 & 4 Hess Ranch knot 4 is east side knot, 5 west side with unconformity.

Jy 11 - South of WL locality with *Actinistria* near middle of Devil's Hole went over thick sandy cyl. On scoop facing flat about 50-75' above flat is contact of cyl. with Gaptank 1. The latter contains brown algal reef and patch of chert possibly remnant of Kelpie. About 25' above contact occurs massive gray beds in cyl. from which I took two samples. The lower 40-50' of cyl. have many ls pebbles but above that to the shale ls. pebbles are few and the beds have much chert breccia scattered in them.

Picture 5+6 - Dixie Ranch view
of hill with shale below Hess (5).
Continuous with it to show ridge
(6).

July 11 in morning collected from
Artinskia bed 30' above base of
Wolfcamp cgl. Then went up to
collect shale between WC cgl and
Hess. This shale is quite bluish
and fairly hard in places but
weatheres to a dull gray. The
snails occur in the lower
part of cgl. Beds of ls and cgl
occur throughout the shale.

The Hess on the shale is
very strongly conglomeratic. It
also contains thick bedded blocky
ls. with brown chert on upper
surface. This contains small
reticulate product id with raised
muscle platforms. Beds of yellow
platy shale also appear between
the heavy conglomerate beds.
suggesting passage to west into
the yellow platy shale.

Afternoon went over about 220 yds
west along front to Artinskia bed (2)
climbed south (perpendicular) to
strike over the Wolfcamp Cgl. on
front found 2 goniolite 10-15'
above base. Far near where
cars are parked the base of the
Wolfcamp is heavy bedded cgl.
ls. with fossils but I was
unable to locate goniolite.

July 12. Examined knob on east end of Windmill Hill section. Knob is in lower Wolfcamp, not Head and is exaggerated by the topography because the Permian cgl covers nearly all the NE side of Knob. It is fluff the normal Head cgl. covering the back slope.

-712P

Picture 7 - Sullivan peak from entrance to Canyon Decie Hills.

Picture 8 - Knob on east end of Windmill Hill from west.

Afternoon went along base of spur on west side Sullivan Ranch road to Arroyo down which fault goes. Heavy ledges with good cherts can be traced across the front near the base of the hill to the arroyo with the fault. Here the ledges end abruptly on the east edge of the arroyo. South down the gully about 0.1 mile Devonian chert appears. On the south side of the big mass of rock on the slope opposite the rocks (south) Pennsylvania type rocks appear. Under the big mass are yellow shales and thin yellow limestone. Took sample with fusulines. Real Wolfcamp fusulines.

706V

0423

July 13 - Went to Leonard Mtn. to examine knot. Saw from east dips are not in accord with regional structure and in places are high 30° - 40° . Noted some dolomitic dolomite on west side of block. About half way down from top of knot on west side is a shelf and on this I saw *Brachiodella*, large *Micella* and fusulines. Sample taken.

Picture 9 - Looking up arroyo on east side of knot. Large tree near top marks top of Udderite shale.

Picture 10 - Profile S end Leonard Mtn from SW

July 14 - Collected at Sullivan Park all day

July 15 - Collected at 702d & e.

July 16 - Brothers Ranch - Saw Palmettoes in massive limestone at base of section.

Collected Wolfgang at Gap tank. The thick ls under the Wolfgang are mostly massive and dolomitized.

Replace Ⓛ Big block

0424

July 17.

Blocks to Chicago

260

Copper blocks

22, 24	—	245
2, 12	—	395
17, 20, 19	—	325
6	—	70
33	—	100
14	—	180
25	—	368
10, 3, 8	—	380
28, 21, 27, 15	—	365
13, 11, 7	—	378
18, 16	—	375
4	—	135
31, 29	—	305
9, 5	—	450
32	—	383
30, 26	—	315
23, 1,	—	360
2 boxes	—	355
		5994

731

Jy 19'53 Pinery from top of hill
 5130, $\frac{1}{2}$ mile SSW of Pinon Tanks,
 South of Getaway Gap, Guadalupe
 Peak D, Texas

Jy 20 - Spent at Carlsbad in effort
 to get on Fig. 2 Ranch.

Jy 21 - west side road in ditch,
 ca $\frac{1}{2}$ mile N of gate at Huco clm.

Jy 21' - S side saddle of hill
 opposite BM 5318, $1\frac{1}{2}$ miles N
 of Huco claim, Huco Mtns D,
 Texas.

Collected in Powder Canyon from
 2 knobs, elevation 3000', one mile
 NNE of elevation on US 62 of
 4536 at a road intersection just
 east of entrance to Powder
 Canyon, Helm West Well D, 1/24000, Tex.

July 23 -

Pack 2 - pictures 1 + 2 Caves Canyon
contorted Bone Spring.

3 + 4 Guadalupe Peak from intersection
US 180-62 + Texas 54!

5 + 6. — lost.

R. Taylor Hopkins Super.

T. Homer Black Park Nat.

July 24 - Entered caverns 8: AM, Left
15 PM.

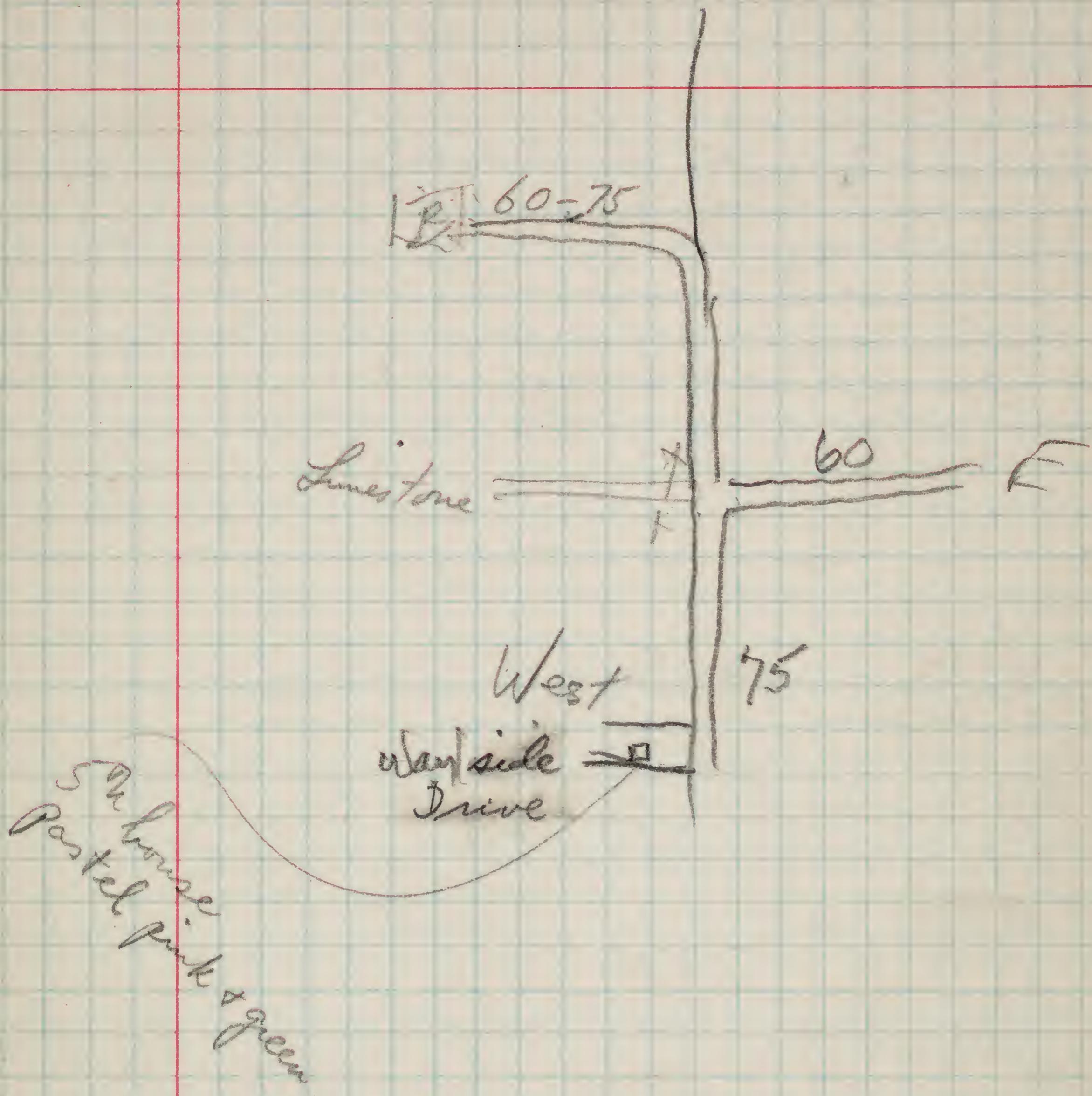
Camp Colorado = 61

62 small Deshleria from Permian
probably = Haysville Holes Creek
ca 8 miles ENE of Coleman.

Refrigerator piece of Mexican
fuseline and other large fuselines.
Send Mrs. R. Franks.

Riverside Drive to Belknap Street
turn west (left) proceed 6 blocks
to River bridge, turn right before
bridge. Along Oakhurst Drive
about a mile from bridge.
East on Watauga road by cemetery
left on Sylvania, right on Texas 28
Street,

0427



Brownville on RR E of Strohman
3-7 miles east = NE.

Bill Ham

933 South Flood.

West on Main to first traffic light
about 5 blocks past hotel, left
1 1/2 blocks past 2nd Schoolhouse,

Loc 1
2
3
4

5 of Chouteau

" " "

" " "

" " "

5 of Muskogee

6

Main 8th just Ardmore to State 77, to Lake Murray Tuckerman Quarry or go in from outworks 3 $\frac{1}{2}$ miles E of U.S. 77,

Isogramma road cut west of crossing with Okla 33.

Hindsville - Grand River

Loc. #1 Best Nelson Farm, ^{center} E $\frac{1}{2}$ sec 16 - 19 N - 19 E, Mayes County also Fayetteville in NW cor 16. on new road

Loc #2 $\frac{1}{2}$ mi. E of Murphy,

Sec 1 - 19 N - 19 E on Hastings farm.

Roadcut near mail-box.

Hindsville - Fayetteville - Hale
Good section. Down hill along south line of the section.

Loc. 3 Weaver Bros. Dy. NE $\frac{1}{4}$ 33 - 21 N - 19 E. on road. Hindsville limestone 13' - 15' near top.

Loc 4 Along rd SE cor sect. 13 22 N - 19 E, for Fayetteville SE of Adair. East of Hayes.

Loc. 5 - Cedar Creek Sec 36-13N-20E

Moorefield & possibly Fayetteville
Center of Greenleaf Lake 4½ mi.

Moorefield Stop 11 Guide book

Cutter 10-13N-21E at old
road cut S of new turn-
around at edge Fenkiller Lake
Also some Fayetteville, Quarry
in Bloyd at road junction
NW ¼ 10-13N-21E. Right at
Qy for Moorefield Collecting.

Fennvale Guide Book Stop 5
Cutter Road to Tableiquah, military
entrance goes south 5 1/4 35-14N-21E

Road goes back NE into timber
Fault on S side road Cutter
Burgin, Tynan, upstream is a
sheer bluff with site at base
& w¹ of Fennvale, to ledge
silicified overlain by Sylvan & St. Clare

430

Kozacke Soc. 6 - SE of Pettit
Hindsville caps hill, west side

Creek SW¹/4 29 - 15N-22E.

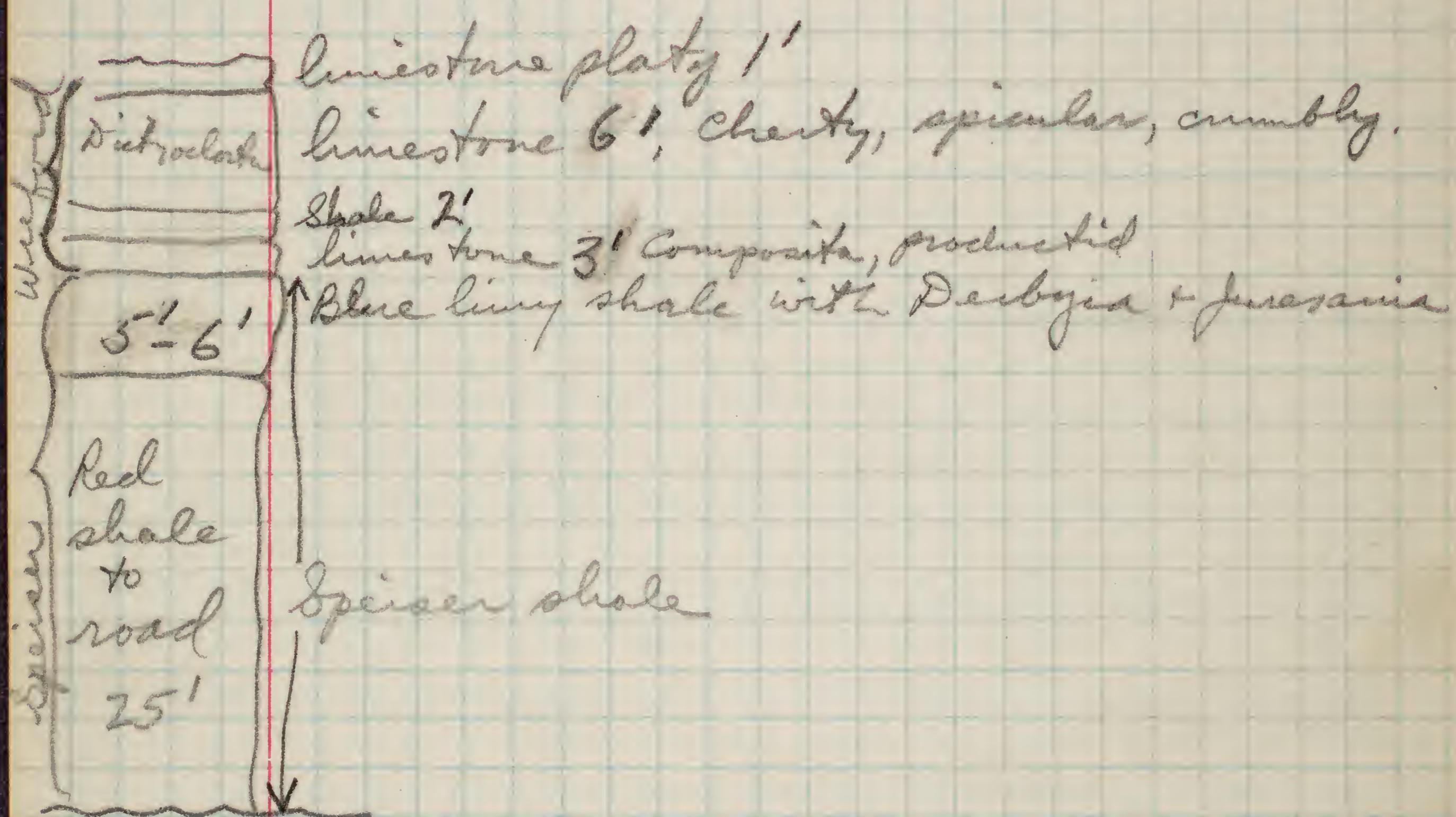
Go from stop 5 S + E to Qualls
Take left fork

To get to Qualls go out Okla 10^{1/2}-62
See

Soc 7 - Bridge, east side
Cloutcan Creek, N side of
old road, which is N of new
road. Fayetteville limestone
Good products. See stop 4
in guide-book.

Kansas 15 - 3 miles S of Dexter

Franks to Ronfros



Picture 7 Sh. channel about $1\frac{1}{4}$ miles west of Cloverdale intersection on Kansas 38.

Derbyia $1\frac{1}{4}$ mi east of Borden
on fls 160 probably same as Derbyia bed at Borden.

0432

Riverside Drive to Rosedale (and
west on Rosedale to freeway)

Signal with barricades = 51
Plymouth DA-8938

Locality for Leveedams for
Renfro.